



STIC Search Report

EIC 2100

STIC Database Tracking Number: 156820

TO: Thomas Pham
Location: RND 5a28
Art Unit : 2121
Friday, June 17, 2005

Case Serial Number: 09/829524

From: Carol Wong
Location: EIC 2100
RND 4A30
Phone: 272-3513

carol.wong@uspto.gov

Search Notes

Dear Examiner Pham,

Attached are the search results (from commercial databases) for your case.

Color tags mark the patents/articles which appear to be most relevant to the case.

Please call if you have any questions or suggestions for additional terminology, or a different approach to searching the case.

Thanks,
Carol

File 347:JAPIO Nov 1976-2005/Feb(Updated 050606)

(c) 2005 JPO & JAPIO

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200538

(c) 2005 Thomson Derwent

| Set | Items | Description |
|-----|---------|---|
| S1 | 32 | MULTISERVER? |
| S2 | 168722 | SERVER? OR CLIENTSERVER? OR RAS OR MAILSERVER? OR WEB SERVER- R? OR PRINTSERVER? OR FILESERVER? OR HTTPSERVER? OR FTPSERVER? |
| S3 | 13 | MICROSERVER? OR MINISERVER? OR PROXYSERVER? OR DATASERVER? |
| S4 | 2054 | (PLURALIT? OR MANY OR MULTI OR SEVERAL OR NUMEROUS OR ADDI- TIONAL OR DIFFERENT OR MULTIPLE OR MULTITUD? OR PLURIF?) (1W) S- 2:S3 |
| S5 | 1847 | (PLURIF? OR SECOND? OR 2ND OR BOTH OR VARIETY OR GROUP? ? - OR CLUSTER? ? OR NUMBER OR ALTERNATIVE OR PAIR? ?) (1W) S2:S3 |
| S6 | 5937 | (NETWORK? ? OR CHAIN? ? OR SERIES OR ANOTHER OR DUAL OR TH- REE OR TWO OR RANGE? ? OR ALTERNATE? OR COUPLE? ?) (1W) S2:S3 |
| S7 | 83 | (TRIO OR THIRD OR 3RD) (1W) S2:S3 |
| S8 | 138 | (PARALLEL OR REDUNDANT OR SHADOW OR MIRROR) (1W) S2:S3 |
| S9 | 1598 | EMAIL? OR EMESSAG? OR ECORRESPOND? |
| S10 | 30778 | (E OR ELEC OR ELECTRONIC) (1W) (MAIL???? ? OR MESSAG? OR COR- RESPOND?) |
| S11 | 459 | CYBERMAIL? OR VIRTUALMAIL OR (CYBER OR VIRTUAL) (1W) (MAIL??- ?? ? OR MESSAG? OR CORRESPOND?) |
| S12 | 207360 | MAIL? ? OR MESSAGE? ? OR CORRESPONDENCE? OR TEXTMESSAGE? |
| S13 | 4798373 | CREAT???? ? OR GENERAT??? ? OR GENERATION? ? OR CONSTRUCT? OR COMPOSE? ? OR COMPOSING OR COMPOSITION? ? |
| S14 | 1191929 | FORMULAT? OR PREPAR??? ? OR PREPARATION |
| S15 | 1350657 | SOURCE? ? OR AUTHOR? OR ORIGINAT? OR INITIAT? |
| S16 | 2831419 | PRODUCE? ? OR PRODUCING OR PRODUCTION OR PROD? ? |
| S17 | 5535294 | EACH OR ANY OR ANYONE OR ALL OR EVERY OR EVERYONE OR BOTH |
| S18 | 20678 | S9:S12(3N)S13:S16 |
| S19 | 3066 | S17(2W)S1:S3 |
| S20 | 5 | S19(10N)S18 |
| S21 | 1 | S20 AND S4:S8 |
| S22 | 0 | S1(10N)S18 |
| S23 | 0 | S1 AND S18 |
| S24 | 39 | S19 AND S18 |
| S25 | 8 | S24 AND S4:S8 |
| S26 | 1169 | S17(5N)S18 |
| S27 | 0 | S1 AND S26 |
| S28 | 9 | S26 AND S4:S8 |
| S29 | 46 | S20:S25 OR S28 |
| S30 | 46 | IDPAT (sorted in duplicate/non-duplicate order) |
| S31 | 46 | IDPAT (primary/non-duplicate records only) |

31/9/5 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015765931 **Image available**

WPI Acc No: 2003-828133/200377

XRPX Acc No: N03-661483

System integrating multimedia communication transmission and message
management - for integrating the message management communication task of
a link network and a communication network

Patent Assignee: HUANG G (HUAN-I)

Inventor: HUANG G

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|-----------|------|----------|---------------|------|----------|----------|
| TW 535444 | A | 20030601 | TW 2001115580 | A | 20010627 | 200377 B |

Priority Applications (No Type Date): TW 2001115580 A 20010627

Patent Details:

| Patent No | Kind | Lan Pg | Main IPC | Filing Notes |
|-----------|------|--------|-------------|--------------|
| TW 535444 | A | | H04Q-003/00 | |

Abstract (Basic): TW 535444 A

NOVELTY - The invention discloses a system integrating multimedia communication transmission and message management, which is used to integrate the message management communication task of a link network and a communication network. The system comprises a management computer used to input message and management data being forwarded to a main server. The main server decides a message transmission method based on management data and forwards the message through a link network to **all** district **servers**. All district **servers** decide to send message by e-mail, fax, telephone, mobile phone or mobile short message through at least one of link network and communication network to a link network subscriber or communication network subscriber. The invention can target at huge subscribers requesting different message transmission requirements added with customized **creation** and **message** delivery to significantly reduce the time cost and increase the service quality.

DwgNo 1/1

Title Terms: SYSTEM; INTEGRATE; COMMUNICATE; TRANSMISSION; MESSAGE; MANAGEMENT; INTEGRATE; MESSAGE; MANAGEMENT; COMMUNICATE; TASK; LINK; NETWORK; COMMUNICATE; NETWORK

Derwent Class: T01; W01; W02

International Patent Class (Main): H04Q-003/00

File Segment: EPI

Manual Codes (EPI/S-X): T01-N01D1; W01-B05A1A; W01-C05B2; W02-C03C1A

31/9/19 (Item 19 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014132333 **Image available**

WPI Acc No: 2001-616544/200171

XRPX Acc No: N01-459838

Outgoing advertising messages load balancing method in client-server architecture, involves sending rich media electronic message with message ID to different target selected from list of potential recipients

Patent Assignee: MINDARROW SYSTEMS INC (MIND-N)

Inventor: DUNCAN M; MCEWAN R

Number of Countries: 090 Number of Patents: 002

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|--------------|------|----------|---------------|------|----------|----------|
| WO 200173573 | A1 | 20011004 | WO 2000US7996 | A | 20000324 | 200171 B |
| AU 200040312 | A | 20011008 | AU 200040312 | A | 20000324 | 200208 |
| | | | WO 2000US7996 | A | 20000324 | |

Priority Applications (No Type Date): WO 2000US7996 A 20000324

Patent Details:

| Patent No | Kind | Lan Pg | Main IPC | Filing Notes |
|--------------|------|--------|----------------|--------------|
| WO 200173573 | A1 | E | 16 G06F-015/16 | |

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR

IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW
AU 200040312 A G06F-015/16 Based on patent WO 200173573

Abstract (Basic): WO 200173573 A1

NOVELTY - A mail network having an **initiator** (10) and **alternative servers** (42,44,52,54,56,62,64) is provided. The initiator creates a campaign core having a list of potential recipients and a commercial **message**. Each **server** composes a rich media **electronic message** having commercial message and sends the message with message ID to a different target selected from the list. The message is tracked using the message ID.

USE - In client-server architecture for load balancing outgoing advertisement.

ADVANTAGE - Prevents network connecting the initiator to the server, from carrying excess traffic, since the initiator sends request to assemble and mail' rather than complete messages.

DESCRIPTION OF DRAWING(S) - The figure shows the schematic view of a network.

Initiator (10)

Alternative servers (42,44,52,54,56,62,64)

pp; 16 DwgNo 1/2

Title Terms: OUTGOING; ADVERTISE; MESSAGE; LOAD; BALANCE; METHOD; CLIENT; SERVE; ARCHITECTURE; SEND; RICH; MEDIUM; ELECTRONIC; MESSAGE; MESSAGE; ID ; TARGET; SELECT; LIST; POTENTIAL; RECIPIENT

Derwent Class: T01

International Patent Class (Main): G06F-015/16

File Segment: EPI

Manual Codes (EPI/S-X): T01-H07C1; T01-H07C5S; T01-J05A; T01-J05B4P; T01-M02A1

31/9/20 (Item 20 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013978556 **Image available**

WPI Acc No: 2001-462770/200150

Channel linking method using multi - server in push system

Patent Assignee: KOREA TELECOM (KOTE-N); KT CORP (TKTKT-N)

Inventor: JANG J Y; KIM Y H; YOEN S H; CHANG J Y; YEON S H

Number of Countries: 001 Number of Patents: 002

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---------------|------|----------|-------------|------|----------|----------|
| KR 2001004954 | A | 20010115 | KR 9925728 | A | 19990630 | 200150 B |
| KR 333741 | B | 20020425 | KR 9925728 | A | 19990630 | 200270 |

Priority Applications (No Type Date): KR 9925728 A 19990630

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|-----------|------|-----|----|----------|--------------|
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| KR 2001004954 | A | 1 | G06F-015/00 |
|---------------|---|---|-------------|

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|-----------|---|--|-------------|-------------------------------------|
| KR 333741 | B | | G06F-015/00 | Previous Publ. patent KR 2001004954 |
|-----------|---|--|-------------|-------------------------------------|

Abstract (Basic): KR 2001004954 A

NOVELTY - A channel linking method using a **multi - server** in a push system is provided to make users get same information, keeping the same channel for **each server** in distributed **multi - server** environment.

DETAILED DESCRIPTION - A channel linking method consists of three steps. At the first step, among independent **multi - push servers**, the push server that the channel was changed becomes the temporary master

push server, and other servers become temporary slave push servers. At the second step, the temporary master push server watches the generated message queues. At the third step, according to the result of the watch, the temporary master push server transmits the messages that remains in the message queue to the temporary slave push servers, and so, the channels between multi -push servers are linked.

pp; 1 DwgNo 1/10

Title Terms: CHANNEL; LINK; METHOD; MULTI; SERVE; PUSH; SYSTEM

Derwent Class: T01

International Patent Class (Main): G06F-015/00

File Segment: EPI

Manual Codes (EPI/S-X): T01-J

31/9/26 (Item 26 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012697813 **Image available**

WPI Acc No: 1999-503922/199942

XRPX Acc No: N99-376733

E-mail transfer system for E-mail management system - performs E-mail transfer between master file server on intranet and slave file server on internet

Patent Assignee: MITSUBISHI ELECTRIC CORP (MITQ)

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|-------------|------|----------|-------------|------|----------|----------|
| JP 11219326 | A | 19990810 | JP 9822418 | A | 19980203 | 199942 B |

Priority Applications (No Type Date): JP 9822418 A 19980203

Patent Details:

| Patent No | Kind | Lan Pg | Main IPC | Filing Notes |
|-------------|------|--------|-------------|--------------|
| JP 11219326 | A | 16 | G06F-013/00 | |

Abstract (Basic): JP 11219326 A

NOVELTY - The data communication between the intranet (2) and the internet (1) is performed through the fire wall (3). The transmission and reception of E-mail is carried out between the master file server (4) on the intranet and the slave file server (6) on the internet.

USE - For transfer of E-mail in E-mail management system.

ADVANTAGE - Enables storage of E-mail in identical classification state in file controller of master/slave file server. Enables reading of E-mail by user using usual network terminal equipment in intranet. Eliminates need for modification of identical content for each server . Enables E - mail generation by user on inner side or exterior of fire wall. Reduces communication path usage period to forward E-mail efficiently. Reduces memory capacity of slave file controller by avoiding need for storage of all information. Enables efficient utilization of network resources. Facilitates efficient accessing of slave file controller by reducing accessing period. Avoids decoding of E- mail even if it is accidentally received by other system. Improves safety by preventing decipherment of E-mail on network. Facilitates usage of mobile network terminal equipment by various persons by deleting information about E-mail. DESCRIPTION OF DRAWING(S) - The figure shows block diagram of E-mail management system. (1) Internet; (2) Intranet; (3) Fire wall; (4) Master file server; (6) Slave file server.

Dwg.1/23

Title Terms: MAIL; TRANSFER; SYSTEM; MAIL; MANAGEMENT; SYSTEM; PERFORMANCE; MAIL; TRANSFER; MASTER; FILE; SERVE; SLAVE; FILE; SERVE

Derwent Class: P85; T01; W01
International Patent Class (Main): G06F-013/00
International Patent Class (Additional): G09C-001/00; H04L-009/32;
H04L-012/54; H04L-012/58
File Segment: EPI; EngPI
Manual Codes (EPI/S-X): T01-H; W01-A03B; W01-A05B; W01-A06G2
? t31/9/39

31/9/39 (Item 39 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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004478132

WPI Acc No: 1985-305010/198549

Related WPI Acc No: 1990-187474; 1990-187475; 1990-187476; 1990-187477;
1990-195737; 1990-232960

XRPX Acc No: N85-226798

Local area network for digital data processing system - joins users and
sources using communications link with interface units each of which is
connected to several users

Patent Assignee: DIGITAL EQUIP CORP (DIGI)

Inventor: DUFFY D; LAUCK A; MANN B; STRECKER W; DUFFY D J; LAUCK A J; LAUCK
A G; MANN B E; STRECKER W D

Number of Countries: 015 Number of Patents: 022

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|-------------|------|----------|-------------|------|----------|----------|
| EP 163577 | A | 19851204 | | | | 198549 B |
| AU 8542661 | A | 19851205 | | | | 198605 |
| FI 8502198 | A | 19851202 | | | | 198611 |
| BR 8502706 | A | 19860212 | | | | 198613 |
| JP 61056538 | A | 19860322 | JP 85118662 | A | 19850531 | 198618 |
| US 4823122 | A | 19890418 | US 8788063 | A | 19870824 | 198918 |
| CA 1257399 | A | 19890711 | | | | 198932 |
| AU 8941416 | A | 19891221 | | | | 199016 |
| AU 8941417 | A | 19891221 | | | | 199016 |
| US 4975904 | A | 19901204 | US 89433419 | A | 19891107 | 199051 |
| US 4975905 | A | 19901204 | US 89412577 | A | 19890925 | 199051 |
| CA 1279933 | C | 19910205 | | | | 199111 |
| US 5058108 | A | 19911015 | US 89412576 | A | 19890925 | 199144 |
| EP 163577 | B | 19911211 | | | | 199150 |
| DE 3584853 | G | 19920123 | | | | 199205 |
| CA 1301941 | C | 19920526 | CA 605259 | A | 19890710 | 199227 |
| | | | CA 615862 | A | 19900914 | |
| AU 633510 | B | 19930204 | AU 8542661 | A | 19850601 | 199312 |
| | | | AU 8941416 | A | 19890914 | |
| AU 633511 | B | 19930204 | AU 8542661 | A | 19850601 | 199312 |
| | | | AU 8941417 | A | 19890914 | |
| JP 5063706 | A | 19930312 | JP 85118662 | A | 19850531 | 199315 |
| | | | JP 9232437 | A | 19850531 | |
| JP 8214003 | A | 19960820 | JP 9232437 | A | 19850531 | 199643 |
| | | | JP 95281198 | A | 19850531 | |
| US 5621734 | A | 19970415 | US 84616553 | A | 19840601 | 199721 |
| | | | US 8727033 | A | 19870319 | |
| | | | US 8788063 | A | 19870824 | |
| | | | US 88178430 | A | 19880406 | |
| | | | US 89338485 | A | 19890413 | |
| | | | US 89412576 | A | 19890925 | |
| | | | US 91724064 | A | 19910701 | |
| | | | US 9331069 | A | 19930312 | |
| | | | US 94225365 | A | 19940408 | |
| US 5734659 | A | 19980331 | US 84616553 | A | 19840601 | 199820 |

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| US 8727033 | A | 19870319 |
| US 8788063 | A | 19870824 |
| US 88178430 | A | 19880406 |
| US 89338485 | A | 19890413 |
| US 89412576 | A | 19890925 |
| US 91724064 | A | 19910701 |
| US 9331069 | A | 19930312 |
| US 94223245 | A | 19940401 |

Priority Applications (No Type Date): US 8788063 A 19870824; US 84616553 A 19840601; US 8727033 A 19870319; US 88177849 A 19880404; US 89433419 A 19891107; US 89412577 A 19890925; US 89412576 A 19890925; US 88178430 A 19880406; US 89338485 A 19890413; US 91724064 A 19910701; US 9331069 A 19930312; US 94225365 A 19940408; US 94223245 A 19940401

Cited Patents: Jnl.Ref; A3...8802; EP 160263; EP 81056; No-SR.Pub

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|-----------|------|-----|----|----------|--------------|
| EP 163577 | A | E | 49 | | |

Designated States (Regional): CH DE FR GB IT LI NL SE

| | | |
|------------|---|----|
| US 4975904 | A | 23 |
| US 4975905 | A | 22 |
| US 5058108 | A | 24 |

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| EP 163577 | B |
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Designated States (Regional): BE CH DE FR GB IT LI NL SE

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|------------|---|-------------|------------------------------|
| CA 1301941 | C | H04L-005/22 | Div ex application CA 605259 |
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| AU 633510 | B | G06F-013/42 | Div ex application AU 8542661 |
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| AU 633511 | B | G06F-015/16 | Previous Publ. patent AU 8941416 |
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| AU 633511 | B | G06F-015/16 | Div ex application AU 8542661 |
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| JP 5063706 | A | H04L-012/28 | Previous Publ. patent AU 8941417 |
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| JP 8214003 | A | 21 H04L-012/28 | Div ex application JP 85118662 |
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| US 5621734 | A | 23 H04L-012/40 | Div ex application JP 9232437 |
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| US 5621734 | A | 23 H04L-012/40 | Cont of application US 84616553 |
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| US 5734659 | A | 22 H04J-003/00 | Div ex application US 8727033 |
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| US 5734659 | A | 22 H04J-003/00 | Div ex application US 8788063 |
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| US 5734659 | A | 22 H04J-003/00 | Cont of application US 88178430 |
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| US 5734659 | A | 22 H04J-003/00 | Cont of application US 89338485 |
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| US 5734659 | A | 22 H04J-003/00 | Div ex application US 89412576 |
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| US 5734659 | A | 22 H04J-003/00 | Cont of application US 91724064 |
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| US 5734659 | A | 22 H04J-003/00 | Cont of application US 9331069 |
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| US 5734659 | A | 22 H04J-003/00 | Div ex patent US 4823122 |
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| US 5734659 | A | 22 H04J-003/00 | Div ex patent US 5058108 |
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| US 5734659 | A | 22 H04J-003/00 | Cont of application US 84616553 |
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| US 5734659 | A | 22 H04J-003/00 | Div ex application US 8727033 |
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| US 5734659 | A | 22 H04J-003/00 | Div ex application US 8788063 |
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| US 5734659 | A | 22 H04J-003/00 | Cont of application US 88178430 |
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| US 5734659 | A | 22 H04J-003/00 | Cont of application US 89338485 |
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| US 5734659 | A | 22 H04J-003/00 | Div ex application US 89412576 |
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| US 5734659 | A | 22 H04J-003/00 | Cont of application US 91724064 |
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| US 5734659 | A | 22 H04J-003/00 | Cont of application US 9331069 |
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| US 5734659 | A | 22 H04J-003/00 | Div ex patent US 4823122 |
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| US 5734659 | A | 22 H04J-003/00 | Div ex patent US 5058108 |
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Abstract (Basic): EP 163577 A

The network includes several device server units each of which converts to a service user and a number of nodes connected to a service provider and communications link to effect communications between the nodes and the units. This enables users and provides to communicate. Each node includes a device for transmitting a service advertising message over the link to identify the services provided. Each sensor device unit includes an advertising message receiving device connected to the link for receiving the message. A service table device

establishes a service table including several entries each including a node field and a service field, identifying a node and a service provided by the service provider connected to the node.

A selection device is responsive to an operator requesting a service for using the service table to requested service.

USE - Electronic mail, word processing, accounting or data communications over telephone lines.

Dwg.0/8

Abstract (Equivalent): EP 380141 B

A local area network (10) for interconnecting service users (12) and service providers (14), including a plurality of device server units (24) each of which connects to a service user (12) and a plurality of nodes (34) each connected to a service provider (12) and a communications link (16) to effect transfer of messages between the nodes (34) and device server units (24) to enable said service users (12) and service providers (14) to communicate, **each** said device server units (24) including: timing means (92) for generating a timing signal at the end of a predetermined timing interval; data storage means (106) for accumulating data from said service users (12) for transmission to said service providers (14); data waiting flag means (86) connected to said data storage means (106) and having a set condition when data is stored in said data storage means and a reset condition; and message transmission means (60,70) connected to said communications link (16), said timing means (92), said data storage means (106) and said data waiting flag means (86) for transferring data from said data storage means (106) over said communication link (16) in response to the data waiting flag means (86) having a set condition if said timing means (92) has generated the timing signal; wherein each said node (34) includes node message transmission means (64,70) connected to said service providers (14) and said communications link (16) for transmitting messages to a device server unit (24) in response to the receipt of a message from said device server unit (24), characterised in that **each** message originating at **each** said node (34) includes a response requested flag field (R) having selected values, **each** said device server unit (24) further having message receiving means (60,70) for receiving messages, said message receiving means including means for setting data waiting flag means in response to the response requested flag field of a message having a predetermined value. (Dwg.1)e

EP 375664 B

A local area network for interconnecting service users (12) and service providers (14), including a plurality of device server units (24) each of which connects to a service user and a plurality of nodes (34), each connected to a service provider (14) and a communications link (16) to effect communications between the nodes (34) and device server (24) units to enable said service users (12) and service providers (14) to communicate, characterised by A. **each** node (34) including means for periodically transmitting a service advertising message (Fig. 2A) over said communications link (16) to identify the data processing services provided by the service providers (14) connected thereto, and B. **each** device server unit (24) including: i. advertising message receiving means connected to said communications link (16) for receiving said service advertising message; ii. service table means (Fig. 2B) for establishing a service table including a plurality of entries each including a node field which lists said plurality of nodes (34) and a service field which lists services provided by the service providers (14) connected to the node (34); and iii. selection means responsive to an operator requesting a service for using said service table to select the node (34) and service provider (14) to provide the requested data processing service wherein said service advertising message (Fig. 2A) further includes a rating for

each service, said service table means further including means for establishing, in each entry, a rating field in response to the rating from the service advertising message and said selection means further including means for using the contents of said rating entries in said service table in the selection of the node (34) and service provider (14) to provide the requested service. (Dwg.1/8)tEP 163577 B

A local area network for interconnecting service users (12) and service providers (14), including a plurality of device server units (24) each of which connects to a service user (12) and a plurality of nodes (34) each connected to a service provider (14) and a communications link (16) to effect communications between the nodes and device server units to enable said service users and service providers to communicate, characterised by A, each node (34) including means for periodically transmitting a service advertising message over said communications link to identify the services (54) provided by the service providers connected thereto, and B. **each** device **server** unit (24) including; i. advertising message receiving means connected to said communications link for receiving said service advertising message; ii, service table means for establishing a service table including a plurality of entries each including a node field which lists said plurality of nodes and a service field which lists services provided by the service providers connected to an identified node in said plurality of nodes; and iii. selection means responsive to an operator requesting a service for using said service table to select the node and service provider to provide the requested service. (26pp)t

Abstract (Equivalent): US 5621734 A

A system for communicating between users connected to a server and service providers connected to a node, comprising:

means in said server for establishing first service sessions between said server and selected ones of said users;
means in said node for establishing second service sessions between said node and selected ones of said service providers; and
means in said server and in said node for supporting a virtual circuit therebetween and for gathering session **messages generated** by said first service sessions or said second service sessions into a single virtual circuit message for transfer through said virtual circuit.

Dwg.1/8

US 5058108 A

The users and providers connect to the communications link by means of interface units each of which may connect to several users or providers. The interface units communicate over the communications link by means of messages. When a user requires the use of a service, the interface unit establishes a virtual circuit between it and the interface unit connected to the service provider and a service session which allows the user and the service provider to communicate over the virtual circuit.

If several users connected to the one interface unit as the first user require services provided by providers which connected to the same interface unit as the first provider, they communicate in sessions over the same virtual circuits. The session messages are accumulated into single virtual circuit messages that are acknowledged in unison by the receiving interface unit.

USE/ADVANTAGE - Message transfer protocol improvement in LAN enhancing message transfer capability. (24pp)vUS 4975905 A

The users and providers connect to the communications link by means of interface units each of which may connect to several users or providers. The interface units communicate over the communications link using messages. When a user requires the use of a service, the interface unit . establishes a virtual circuit between it and the interface unit connected to the service provider and a service session

which allows the user and the service provider to communicate over the virtual circuit. If several users connected to the one interface unit as the first user require services provided by providers which connected to the same interface unit as the first provider, they communicate in sessions over the same virtual circuits.

The session messages are accumulated into signal virtual circuit messages that are acknowledged in unison by the receiving interface unit. Each virtual circuit in the unit's interface units includes a timer which reset when a message is transmitted over the virtual circuit and a data waiting flag set whenever data is present to be transmitted over the virtual circuit. The interface units are inhibited for transmitting over a virtual circuit unless the timer has timed out and the data waiting flag is set.

USE - Local area network for interconnecting terminals and other users and data processing systems and other service providers over communications link.

US 4975904 A

The interface units communicate over the communications link by means of messages. When a user requires the use of a service, the interface unit establishes a virtual circuit between it and the interface unit connected to the service provider and a service session which allows the user and the service provider to communicate over the virtual circuit. If several users connected to the one interface unit as the first user require services provided by providers which connected to the same interface unit as the first provider, they communicate in sessions over the same virtual circuits. The session messages are accumulated into signal virtual circuit messages that are acknowledged in unison by the receiving interface unit.

Each virtual circuit in the user's interface units includes a timer which reset when a message is transmitted over the virtual circuit and a data waiting flag set whenever data is present to be transmitted over the virtual circuit. The interface units are inhibited from transmitting over a virtual circuit unless the -timer has timed out and the data waiting flag is set.

USE - Local area network for interconnecting terminals and other users and data processing systems and other service providers over communications link via interface units each of which may connect to several users or providers.

US 4823122 A

When a user requires the use of a service, the interface unit establishes a virtual circuit between it and the interface unit connected to the service provider and a service session which allows the user and the service provider to communicate over the virtual circuit. If several users connected to the one interface unit as the first user require services provided by providers which connected to the same interface unit as the first provider, they communicate in sessions over the same virtual circuits.

The session messages are accumulated into single virtual circuit messages that are acknowledged in unison by the receiving interface unit. Each virtual circuit in the users' interface units includes a timer which reset when a message is transmitted over the virtual circuit and a data waiting flag set whenever data is present to be transmitted over the virtual circuit. The interface units are inhibited from transmitting over a virtual circuit unless the timer has timed out and the data waiting flag is set.

Title Terms: LOCAL; AREA; NETWORK; DIGITAL; DATA; PROCESS; SYSTEM; JOIN; USER; SOURCE; COMMUNICATE; LINK; INTERFACE; UNIT; CONNECT; USER

Derwent Class: T01; W01

International Patent Class (Main): G06F-013/42; G06F-015/16; H04J-003/00; H04L-005/22; H04L-012/28; H04L-012/40

International Patent Class (Additional): G06F-013/00; H04J-003/02;

H04J-003/26; H04L-011/00; H04L-012/56; H04Q-001/00
File Segment: EPI
Manual Codes (EPI/S-X): T01-C03; T01-J02; W01-A03; W01-A06X; W01-C05B
?

File 348:EUROPEAN PATENTS 1978-2005/Jun W02
(c) 2005 European Patent Office
File 349:PCT FULLTEXT 1979-2005/UB=20050616,UT=20050609
(c) 2005 WIPO/Univentio
File 324:German Patents Fulltext 1967-200523
(c) 2005 Univentio

| Set | Items | Description |
|-----|---------|--|
| S1 | 69 | MULTISERVER? |
| S2 | 107349 | SERVER? OR CLIENTSERVER? OR RAS OR MAILSERVER? OR WEBSERVE- R? OR PRINTSERVER? OR FILESERVER? OR HTTPSERVER? OR FTPSERVER? |
| S3 | 214 | MICROSERVER? OR MINISERVER? OR PROXYSERVER? OR DATASERVER? |
| S4 | 9618 | (PLURALIT? OR MANY OR MULTI OR SEVERAL OR NUMEROUS OR ADDI- TIONAL OR DIFFERENT OR MULTIPLE OR MULTITUD? OR PLURIF?) (1W)S- 2:S3 |
| S5 | 7456 | (PLURIF? OR SECOND? OR 2ND OR BOTH OR VARIETY OR GROUP? ? - OR CLUSTER? ? OR NUMBER OR ALTERNATIVE OR PAIR? ?) (1W)S2:S3 |
| S6 | 15804 | (NETWORK? ? OR CHAIN? ? OR SERIES OR ANOTHER OR DUAL OR TH- REE OR TWO OR RANGE? ? OR ALTERNATE? OR COUPLE? ?) (1W)S2:S3 |
| S7 | 818 | (TRIO OR THIRD OR 3RD) (1W)S2:S3 |
| S8 | 572 | (PARALLEL OR REDUNDANT OR SHADOW OR MIRROR) (1W)S2:S3 |
| S9 | 25056 | EMAIL? OR EMESSAG? OR ECORRESPOND? |
| S10 | 47383 | (E OR ELEC OR ELECTRONIC) (1W) (MAIL???? ? OR MESSAG? OR COR- RESPOND?) |
| S11 | 959 | CYBERMAIL? OR VIRTUALMAIL OR (CYBER OR VIRTUAL) (1W) (MAIL??- ?? ? OR MESSAG? OR CORRESPOND?) |
| S12 | 236198 | MAIL? ? OR MESSAGE? ? OR CORRESPONDENCE? OR TEXTMESSAGE? |
| S13 | 2696873 | CREAT???? ? OR GENERAT??? ? OR GENERATION? ? OR CONSTRUCT? OR COMPOSE? ? OR COMPOSING OR COMPOSITION? ? |
| S14 | 960828 | FORMULAT? OR PREPAR??? ? OR PREPARATION |
| S15 | 1184139 | SOURCE? ? OR AUTHOR? OR ORIGINAT? OR INITIAT? |
| S16 | 2132204 | PRODUCE? ? OR PRODUCING OR PRODUCTION OR PROD? ? |
| S17 | 3377029 | EACH OR ANY OR ANYONE OR ALL OR EVERY OR EVERYONE OR BOTH |
| S18 | 43929 | S9:S12(3N)S13:S16 |
| S19 | 12872 | S17(2W)S1:S3 |
| S20 | 108 | S19(10N)S18 |
| S21 | 17 | S20(20N)S4:S8 |
| S22 | 1 | S1(10N)S18 |
| S23 | 166 | S19(20N)S18 |
| S24 | 31 | S23(20N)S4:S8 |
| S25 | 32 | S21:S22 OR S24 |
| S26 | 32 | IDPAT (sorted in duplicate/non-duplicate order) |
| S27 | 32 | IDPAT (primary/non-duplicate records only) |
| S28 | 7156 | S17(5N)S18 |
| S29 | 0 | S1(20N)S28 |
| S30 | 48 | S28(20N)S4:S8 |
| S31 | 37 | S30 NOT S27 |
| S32 | 37 | IDPAT (sorted in duplicate/non-duplicate order) |
| S33 | 36 | IDPAT (primary/non-duplicate records only) |
| | ? | |

27/5,K/12 (Item 12 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.

01183719 **Image available**

SYSTEM AND METHOD FOR SECURE COMMUNICATION
SYSTEME ET PROCEDE DE COMMUNICATION SECURISEE

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Patent and Priority Information (Country, Number, Date):

Patent: WO 2004107687 A1 20041209 (WO 04107687)

Application: WO 2004CH329 20040601 (PCT/WO CH04000329)

Priority Application: WO 2003CH341 20030530

Parent Application/Grant:

Related by Continuation to: WO 2003CH341 20030530 (CIP)

Designated States:

(All protection types applied unless otherwise stated - for applications
2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO
SE SI SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04L-012/58

International Patent Class: H04L-029/06

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 9741

English Abstract

A system (1) for secure communication comprises a secure electronic messaging server (11) which is accessible by the public and a database (12) for storing data of messaging users. The data comprise the tracking of trust establishing out-of-band verification and the monitoring of the trust relations derived therefrom, messaging user-based instructions related to the handling of incoming mails, wherein the instructions comprise information related to an at least one security level chosen by the messaging user. The system (1) comprises means to automatically handle in- and outgoing mails according to these instructions. This system (1) allows transmitting messages privately and securely with minimum prerequisites for its users. The inventive system (1) allows a secure transmitting of messages between a sender (S) and a recipient (R), wherein only one of the two parties is a messaging user.

French Abstract

L'invention concerne un systeme (1) de communication securisee comprenant

un serveur de messagerie electronique securise (11) accessible au public, et une base de donnees (12) servant a stocker les donnees des utilisateurs de la messagerie. Les donnees comprennent le suivi de la verification hors bande de la creation de confiance et la surveillance des relations de confiance derivees, des instructions des utilisateurs de la messagerie associees a la gestion des courriers entrants, ces instructions comprenant des informations associees a au moins un niveau de securite selectionne par l'utilisateur de la messagerie. Ce systeme (1) comprend des moyens de gestion automatique des courriers entrants et sortants selon ces instructions. Ce systeme (1) permet la transmission privee et securisee de messages avec un minimum de conditions requises pour ses utilisateurs. Le systeme (1) de l'invention permet une transmission securisee des messages entre un expediteur (S) et un destinataire (R), un des deux participants seulement etant un utilisateur de la messagerie.

Legal Status (Type, Date, Text)

Publication 20041209 A1 With international search report.

Fulltext Availability:

Detailed Description

Detailed Description

... client side (e.g. equipping
their customers with security tokens, etc.)
When operating with a **multitude** of **servers**, these servers
are connected with a virtual private **network**. Each **server**
will contain the following extra sub module.

- a server collaboration policy manager
- a trust and membership directory
- a **mail originator**
- . a payload redirector
- . optionally a hub server that offers a central policy-, trust-, and membership...

?

File 696:DIALOG Telecom. Newsletters 1995-2005/Jun 16
(c) 2005 The Dialog Corp.
File 15:ABI/Inform(R) 1971-2005/Jun 17
(c) 2005 ProQuest Info&Learning
File 98:General Sci Abs/Full-Text 1984-2004/Dec
(c) 2005 The HW Wilson Co.
File 112:UBM Industry News 1998-2004/Jan 27
(c) 2004 United Business Media
File 141:Readers Guide 1983-2005/Dec
(c) 2005 The HW Wilson Co
File 484:Periodical Abs Plustext 1986-2005/Jun W2
(c) 2005 ProQuest
File 553:Wilson Bus. Abs. FullText 1982-2004/Dec
(c) 2005 The HW Wilson Co
File 608:KR/T Bus.News. 1992-2005/Jun 17
(c) 2005 Knight Ridder/Tribune Bus News
File 813:PR Newswire 1987-1999/Apr 30
(c) 1999 PR Newswire Association Inc
File 613:PR Newswire 1999-2005/Jun 17
(c) 2005 PR Newswire Association Inc
File 635:Business Dateline(R) 1985-2005/Jun 17
(c) 2005 ProQuest Info&Learning
File 810:Business Wire 1986-1999/Feb 28
(c) 1999 Business Wire
File 610:Business Wire 1999-2005/Jun 17
(c) 2005 Business Wire.
File 369:New Scientist 1994-2005/Apr W4
(c) 2005 Reed Business Information Ltd.
File 370:Science 1996-1999/Jul W3
(c) 1999 AAAS
File 20:Dialog Global Reporter 1997-2005/Jun 17
(c) 2005 The Dialog Corp.
File 624:McGraw-Hill Publications 1985-2005/Jun 16
(c) 2005 McGraw-Hill Co. Inc
File 634:San Jose Mercury Jun 1985-2005/Jun 16
(c) 2005 San Jose Mercury News
File 674:Computer News Fulltext 1989-2005/Jun W2
(c) 2005 IDG Communications
File 647:CMP Computer Fulltext 1988-2005/May W5
(c) 2005 CMP Media, LLC

| Set | Items | Description |
|-----|---------|--|
| S1 | 1008 | MULTISERVER? |
| S2 | 1037065 | SERVER? OR CLIENTSERVER? OR RAS OR MAILSERVER? OR WEBSERVE- R? OR PRINTSERVER? OR FILESERVER? OR HTTPSERVER? OR FTPSERVER? |
| S3 | 1191 | MICROSERVER? OR MINISERVER? OR PROXYSERVER? OR DATASERVER? |
| S4 | 30421 | (PLURALIT? OR MANY OR MULTI OR SEVERAL OR NUMEROUS OR ADDI- TIONAL OR DIFFERENT OR MULTIPLE OR MULTITUD? OR PLURIF?) (1W)S- 2:S3 |
| S5 | 18714 | (PLURIF? OR SECOND? OR 2ND OR BOTH OR VARIETY OR GROUP? ? - OR CLUSTER? ? OR NUMBER OR ALTERNATIVE OR PAIR? ?) (1W)S2:S3 |
| S6 | 60262 | (NETWORK? ? OR CHAIN? ? OR SERIES OR ANOTHER OR DUAL OR TH- REE OR TWO OR RANGE? ? OR ALTERNATE? OR COUPLE? ?) (1W)S2:S3 |
| S7 | 750 | (TRIO OR THIRD OR 3RD) (1W)S2:S3 |
| S8 | 4416 | (PARALLEL OR REDUNDANT OR SHADOW OR MIRROR) (1W)S2:S3 |
| S9 | 843868 | EMAIL? OR EMESSAG? OR ECORRESPOND? |
| S10 | 2083835 | (E OR ELEC OR ELECTRONIC) (1W) (MAIL???? ? OR MESSAG? OR COR- RESPOND?) |
| S11 | 842 | CYBERMAIL? OR VIRTUALMAIL OR (CYBER OR VIRTUAL) (1W) (MAIL??- ?? ? OR MESSAG? OR CORRESPOND?) |

S12 4325214 MAIL? ? OR MESSAGE? ? OR CORRESPONDENCE? OR TEXTMESSAGE?
S13 13164794 CREAT????? ? OR GENERAT??? ? OR GENERATION? ? OR CONSTRUCT?
OR COMPOSE? ? OR COMPOSING OR COMPOSITION? ?
S14 4141600 FORMULAT? OR PREPAR??? ? OR PREPARATION
S15 11355618 SOURCE? ? OR AUTHOR?? ? OR AUTHORIZING OR ORIGINAT? OR INITI-
AT?
S16 7825489 PRODUCE? ? OR PRODUCING OR PRODUCTION OR PROD? ?
S17 16488557 EACH OR ANY OR ANYONE
S18 170315 S9:S12(3N)S13:S16
S19 18969 S17(2W)S1:S3
S20 28279 (ALL OR EVERY OR EVERYONE OR BOTH) (2W)S1:S3
S21 28 S19:S20(10N)S18
S22 1 S1(S)S18
S23 134 S19:S20(S)S18
S24 33 S23(S)S4:S8
S25 2 S21(S)S4:S8
S26 9638 S18(5N) (ALL OR EVERY OR EVERYONE OR BOTH OR S17)
S27 0 S1(S)S26
S28 42 S26(S)S4:S8
S29 177 S21:S25 OR S28
S30 84 S29/2001:2005
S31 93 S29 NOT S30
S32 77 RD (unique items)

32/3,K/35 (Item 1 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2005 The Dialog Corp. All rts. reserv.

12875665 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Digital Impact Unveils Impact 4.0; Web-based eMarketing Platform Gives
Clients Campaign Automation and Delivery Throughout the Entire Customer
Lifecycle
BUSINESS WIRE
September 18, 2000
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 844

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... to massively scale to meet the needs of each unique eMarketing campaign. The MPE tracks **each** unique **message** that it has **created** then records and organizes customer actions by tracking impressions, clicks and email responses. This information...

File 9:Business & Industry(R) Jul/1994-2005/Jun 17
(c) 2005 The Gale Group
File 13:BAMP 2005/Jun W1
(c) 2005 The Gale Group
File 16:Gale Group PROMT(R) 1990-2005/Jun 17
(c) 2005 The Gale Group
File 47:Gale Group Magazine DB(TM) 1959-2005/Jun 17
(c) 2005 The Gale group
File 88:Gale Group Business A.R.T.S. 1976-2005/Jun 17
(c) 2005 The Gale Group
File 148:Gale Group Trade & Industry DB 1976-2005/Jun 17
(c) 2005 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group
File 275:Gale Group Computer DB(TM) 1983-2005/Jun 17
(c) 2005 The Gale Group
File 570:Gale Group MARS(R) 1984-2005/Jun 17
(c) 2005 The Gale Group
File 621:Gale Group New Prod.Annou.(R) 1985-2005/Jun 17
(c) 2005 The Gale Group
File 636:Gale Group Newsletter DB(TM) 1987-2005/Jun 17
(c) 2005 The Gale Group
File 649:Gale Group Newswire ASAP(TM) 2005/Jun 08
(c) 2005 The Gale Group

| Set | Items | Description |
|-----|----------|---|
| S1 | 2356 | MULTISERVER? |
| S2 | 1855320 | SERVER? OR CLIENTSERVER? OR RAS OR MAILSERVER? OR WEBSERVER? R? OR PRINTSERVER? OR FILESERVER? OR HTTPSERVER? OR FTPSERVER? |
| S3 | 2624 | MICROSERVER? OR MINISERVER? OR PROXYSERVER? OR DATASERVER? |
| S4 | 58385 | (PLURALIT? OR MANY OR MULTI OR SEVERAL OR NUMEROUS OR ADDITIONAL OR DIFFERENT OR MULTIPLE OR MULTITUD? OR PLURIF?) (1W) S- 2:S3 |
| S5 | 35498 | (PLURIF? OR SECOND? OR 2ND OR BOTH OR VARIETY OR GROUP? ? - OR CLUSTER? ? OR NUMBER OR ALTERNATIVE OR PAIR? ?) (1W) S2:S3 |
| S6 | 117573 | (NETWORK? ? OR CHAIN? ? OR SERIES OR ANOTHER OR DUAL OR THREE OR TWO OR RANGE? ? OR ALTERNATE? OR COUPLE? ?) (1W) S2:S3 |
| S7 | 1477 | (TRIO OR THIRD OR 3RD) (1W) S2:S3 |
| S8 | 9991 | (PARALLEL OR REDUNDANT OR SHADOW OR MIRROR) (1W) S2:S3 |
| S9 | 812213 | EMAIL? OR EMESSAG? OR ECORRESPOND? |
| S10 | 2081811 | (E OR ELEC OR ELECTRONIC) (1W) (MAIL???? ? OR MESSAG? OR COR- RESPOND?) |
| S11 | 1163 | CYBERMAIL? OR VIRTUALMAIL OR (CYBER OR VIRTUAL) (1W) (MAIL??- ? ? OR MESSAG? OR CORRESPOND?) |
| S12 | 4060727 | MAIL? ? OR MESSAGE? ? OR CORRESPONDENCE? OR TEXTMESSAGE? |
| S13 | 13311528 | CREAT???? ? OR GENERAT??? ? OR GENERATION? ? OR CONSTRUCT? OR COMPOSE? ? OR COMPOSING OR COMPOSITION? ? |
| S14 | 3629268 | FORMULAT? OR PREPAR??? ? OR PREPARATION |
| S15 | 8337802 | SOURCE? ? OR AUTHOR?? ? OR AUTHORIZING OR ORIGINAT? OR INITI- AT? |
| S16 | 8871244 | PRODUCE? ? OR PRODUCING OR PRODUCTION OR PROD? ? |
| S17 | 31216996 | EACH OR ANY OR ANYONE |
| S18 | 154195 | S9:S12(3N)S13:S16 |
| S19 | 38724 | S17(2W)S1:S3 |
| S20 | 54698 | (ALL OR EVERY OR EVERYONE OR BOTH) (2W) S1:S3 |
| S21 | 61 | S19:S20(10N)S18 |
| S22 | 0 | S1(10N)S18 |
| S23 | 201 | S19:S20(S)S18 |
| S24 | 38 | S23(S)S4:S8 |
| S25 | 0 | S21(S)S4:S8 |

S26 12712 S18(5N) (ALL OR EVERY OR EVERYONE OR BOTH OR S17)
S27 3 S1(S)S26
S28 84 S26(S)S4:S8
S29 184 S21 OR S24 OR S27:S28
S30 43 S29/2001:2005
S31 141 S29 NOT S30
S32 63 RD (unique items)

32/3,K/6 (Item 3 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

07812637 Supplier Number: 65270042 (USE FORMAT 7 FOR FULLTEXT)
Digital Impact Unveils Impact 4.0; Web-based eMarketing Platform Gives Clients Campaign Automation and Delivery Throughout the Entire Customer Lifecycle.
Business Wire, p0230
Sept 18, 2000
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 840

... deliver and track unique, personalized eMarketing messages. The MPE architecture is built upon a distributed **network of servers** designed to massively scale to meet the needs of each unique eMarketing campaign. The MPE tracks **each unique message** that it has **created** then records and organizes customer actions by tracking impressions, clicks and email responses. This information...

32/3,K/39 (Item 1 from file: 88)
DIALOG(R)File 88:Gale Group Business A.R.T.S.
(c) 2005 The Gale Group. All rts. reserv.

02067046 SUPPLIER NUMBER: 06282978
E-mail arrives. (Third-party E-mail products help manage connectivity applications)
King, Steven S.
PC Tech Journal, v6, n4, p106(12)
April, 1988
ISSN: 0738-0194 LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 5669 LINE COUNT: 00542

... the Trailblazer from Telebit.
If upgrading modems is not enough of a performance boost, an **additional mail server** can be added. Many E-mail products, including those to be reviewed in part 2 of this article, support more than one mail server per post office. Two mail **servers** can monitor the post office's **message base** and **initiate** calls independently. An effective way to use two mail **servers** on a multiple post office internetwork is to divide the system in half by mail volume, with **each mail server** servicing one-half of the system and routing mail destined for the other half to...
?

File 6:NTIS 1964-2005/Jun W1
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File 2:INSPEC 1969-2005/Jun W1
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| Set | Items | Description |
|-----|---------|--|
| S1 | 2422 | MULTISERVER? |
| S2 | 282745 | SERVER? OR CLIENTSERVER? OR RAS OR MAILSERVER? OR WEBSERVE- R? OR PRINTSERVER? OR FILESERVER? OR HTTPSERVER? OR FTPSERVER? |
| S3 | 128 | MICROSERVER? OR MINISERVER? OR PROXYSERVER? OR DATASERVER? |
| S4 | 5755 | (PLURALIT? OR MANY OR MULTI OR SEVERAL OR NUMEROUS OR ADDI- TIONAL OR DIFFERENT OR MULTIPLE OR MULTITUD? OR PLURIF?) (1W)S- 2:S3 |
| S5 | 3512 | (PLURIF? OR SECOND? OR 2ND OR BOTH OR VARIETY OR GROUP? ? - OR CLUSTER? ? OR NUMBER OR ALTERNATIVE OR PAIR? ?) (1W)S2:S3 |
| S6 | 13839 | (NETWORK? ? OR CHAIN? ? OR SERIES OR ANOTHER OR DUAL OR TH- REE OR TWO OR RANGE? ? OR ALTERNATE? OR COUPLE? ?) (1W)S2:S3 |
| S7 | 77 | (TRIO OR THIRD OR 3RD) (1W)S2:S3 |
| S8 | 1503 | (PARALLEL OR REDUNDANT OR SHADOW OR MIRROR) (1W)S2:S3 |
| S9 | 21557 | EMAIL? OR EMESSAG? OR ECORRESPOND? |
| S10 | 99406 | (E OR ELEC OR ELECTRONIC) (1W) (MAIL???? ? OR MESSAG? OR COR- RESPOND?) |
| S11 | 761 | CYBERMAIL? OR VIRTUALMAIL OR (CYBER OR VIRTUAL) (1W) (MAIL??- ?? ? OR MESSAG? OR CORRESPOND?) |
| S12 | 579642 | MAIL? ? OR MESSAGE? ? OR CORRESPONDENCE? OR TEXTMESSAGE? |
| S13 | 9940066 | CREAT???? ? OR GENERAT??? ? OR GENERATION? ? OR CONSTRUCT? OR COMPOSE? ? OR COMPOSING OR COMPOSITION? ? |
| S14 | 3080670 | FORMULAT? OR PREPAR??? ? OR PREPARATION |
| S15 | 9125007 | SOURCE? ? OR AUTHOR?? ? OR AUTHORIZING OR ORIGINAT? OR INITI- AT? |
| S16 | 5473535 | PRODUCE? ? OR PRODUCING OR PRODUCTION OR PROD? ? |

S17 5161833 EACH OR ANY OR ANYONE
S18 18953 S9:S12(3N)S13:S16
S19 2177 S17(2W)S1:S3
S20 3019 (ALL OR EVERY OR EVERYONE OR BOTH) (2W)S1:S3
S21 5 S19:S20(10N)S18
S22 12 S1 AND S18
S23 26 S19:S20 AND S18
S24 13 S23 AND S4:S8
S25 4 S21 AND S4:S8
S26 1252 S18(5N) (ALL OR EVERY OR EVERYONE OR BOTH OR S17)
S27 1 S1 AND S26
S28 9 S26 AND S4:S8
S29 43 S21:S25 OR S27:S28
S30 13 S29/2001:2005
S31 30 S29 NOT S30
S32 22 RD (unique items)

32/7/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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6002132 INSPEC Abstract Number: B9810-6210L-011, C9810-6150N-008

Title: Reliable multicast group communication in networked distributed systems

Author(s): Uminski, P.W.
Author Affiliation: Politech. Gdanskiej, Poland
Journal: Zeszyty Naukowe Politechniki Slaskiej, Seria: Informatyka
no.32 p.71-93
Publisher: Wydawnictwo Politech. Slaskiej,
Publication Date: 1997 Country of Publication: Poland
CODEN: ZNPIET ISSN: 0208-7286
SICI: 0208-7286(1997)32L.71:RMGC;1-E
Material Identity Number: H071-98006
Language: Polish Document Type: Journal Paper (JP)
Treatment: Practical (P)

Abstract: The client server programming model is a very popular model for constructing large scale distributed systems. This model allows us to specify and fulfil different reliability requirements for different parts of the system. The new idea of a highly reliable service is presented. This service, called a **group server**, is performed on several different nodes at the same time. Clients send messages to the server using reliable multicast protocol. The messages are addressed to the group rather than to the particular node. Due to the use of this protocol all nodes in the group can receive and **generate** the same **messages**. Therefore, **all** results obtained by **all** replicas should be the same-and a failure of one of the replicas does not lead to the failure of the whole service. We create a new multicast protocol, GREP (Group Reliable Protocol) to be used to access our **group server**. This protocol allows clients to send a message to the group and guarantees that all members of the group will receive the correct message. It also generates a common response from the group, based on results obtained from each member of the **group server**. GREP is a token ring based protocol, where the token is used to synchronise all members of the group. This protocol is a multilevel protocol; different subprotocols are responsible for passing token and group synchronisation, receiving messages, voting and sending messages, and detecting and diagnosing faulty nodes. The node, which is producing results differing from the results of the other nodes is diagnosed as faulty and removed from the group until a successful recovery action is performed. (9 Refs)

Subfile: B C

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File 349:PCT FULLTEXT 1979-2005/UB=20050616,UT=20050609
(c) 2005 WIPO/Univentio
File 324:German Patents Fulltext 1967-200523
(c) 2005 Univentio

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|-----|-------|---|
| Set | Items | Description |
| S1 | 3455 | AU=SMITH S? |
| S2 | 57528 | (E OR ELEC OR ELECTRONI) (1W) (MAIL???? ? OR MESSAG? OR CORR- ESPOND?) |
| S3 | 26654 | EMAIL? OR EMESSAG? OR ECORRESPOND? |
| S4 | 481 | S2:S3(5N) (VOLUME? ? OR MASS) |
| S5 | 1 | S1 AND S4 |

5/9/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

016662000 **Image available**
WPI Acc No: 2004-820719/200481
Related WPI Acc No: 2002-303351
XRXPX Acc No: N04-647961

Electronic-mail messages transmission method in electronic telecommunication system, involves transmitting separate subsets of mail addresses to mail transfer agents which are geographically distant from subset transmission source

Patent Assignee: KALASH J T (KALA-I); RAYNER D P (RAYN-I); SCHMIDT K A (SCHM-I); SMITH S (SMIT-I); ZACH R J (ZACH-I)

Inventor: KALASH J T; RAYNER D P; SCHMIDT K A; SMITH S ; ZACH R J

Number of Countries: 001 Number of Patents: 001

Patent Family:

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|----------------|------|----------|---------------|------|----------|----------|
| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
| US 20040221011 | A1 | 20041104 | US 2000196223 | P | 20000410 | 200481 B |
| | | | US 2001829524 | A | 20010409 | |
| | | | US 2003389419 | A | 20030314 | |

Priority Applications (No Type Date): US 2000196223 P 20000410; US 2001829524 A 20010409; US 2003389419 A 20030314

Patent Details:

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|----------------|------|-----|-------------|----------|---------------------------------------|
| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
| US 20040221011 | A1 | 28 | G06F-015/16 | | Provisional application US 2000196223 |

CIP of application US 2001829524

Abstract (Basic): US 20040221011 A1

NOVELTY - The electronic-mail (e-mail) addresses are provided and the separate subsets of e-mail addresses are transmitted to mail transfer agents (MTA) which are geographically distant from source of subset transmission. The e-mail message with MTA's are transmitted to addresses contained in the subsets.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) electronic-mail messages transmitting system;
- (2) machine-readable recorded medium for storing electronic-mail messages transmission program; and
- (3) computer data signal.

USE - For transmitting electronic-mail messages generated in personal computer (PC) through internet, in electronic telecommunication system.

ADVANTAGE - The high- volume e - mail messages are processed and transmitted to large number of recipients, easily and efficiently.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart illustrating the e-mail messages transmission method.

pp; 28 DwgNo 3/12

Title Terms: ELECTRONIC; MAIL; MESSAGE; TRANSMISSION; METHOD; ELECTRONIC; TELECOMMUNICATION; SYSTEM; TRANSMIT; SEPARATE; SUBSET; MAIL; ADDRESS; MAIL; TRANSFER; AGENT; GEOGRAPHICAL; DISTANCE; SUBSET; TRANSMISSION; SOURCE

Derwent Class: T01; W01

International Patent Class (Main): G06F-015/16

File Segment: EPI

Manual Codes (EPI/S-X): T01-N01C; T01-N02A1; T01-S03; W01-A06F2

PLUS Search Results for S/N 09829524, Searched June 20, 2005

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

6073142
6182118
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| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
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| L3 | 431 | (SMITH near steven).in. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/06/17 11:18 |
| L4 | 3 | (SMITH near steven).in. and (high near volume).ti. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/06/17 11:18 |
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| L10 | 964 | (high near volume).ti. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/06/17 11:18 |
| L11 | 10728 | (709/201,203,218,217 340/7.23,7,29 379/93.24).ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/06/17 11:18 |
| L12 | 1 | L11 and ((mass or volume) near5 (mail\$3 near2 list\$3)) | USPAT | OR | OFF | 2005/06/17 11:18 |
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| L32 | 409 | (mass near10 (mailing email\$3 e-mail\$3)) and delivery | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/06/17 11:18 |
| L33 | 395 | ("718"/\$).ccls. and (mailing email\$3 e-mail\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/17 11:18 |
| L34 | 131 | ("718"/104,105).ccls. and (mailing email\$3 e-mail\$3) | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/17 11:18 |
| L35 | 2 | ("718"/104,105).ccls. and ((multiple plurality many) with ((mailing email\$3 e-mail\$3 delivery) near5 (servers))) | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/17 11:18 |
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| L38 | 495 | ((multiple plurality) near10 ((mail email\$3 e-mail\$3 delivery) near5 (servers))) | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/17 11:18 |
| L39 | 344 | ((multiple plurality) near10 ((email\$3 e-mail\$3 delivery) near5 (servers))) | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/06/17 11:18 |
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| S12 7 | 6 | ((managing administer\$3) same ((mass (high near2 volume)) with (email e-mail (electronic near2 mail)))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/06/16 16:48 |
| S13 0 | 3 | (multiple with servers) and ((mass (high near2 volume)) and (email e-mail (electronic near2 mail))). ab. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/06/16 16:49 |